

# Abstract

A phospholipid derivative, utilizable for modification of liposomes and the like, which is a copolymer containing, as essential component units, a component unit A represented by the formula (1), a component unit B represented by the formula (2A) and/or the formula (2B), and a component unit C represented by the formula (3) [ $R^1$  and  $R^2$  represent hydrogen atom or methyl group, provided that  $R^1$  and  $R^2$  do not simultaneously represent methyl group;  $R^3$  represents a divalent hydrocarbon group having 1 to 3 carbon atoms; AO represents an oxyalkylene group having 2 to 4 carbon atoms;  $m$  represents an average molar number of the added oxyalkylene groups and is a number in the range represented as  $4 \leq m \leq 100$ ;  $R^4$  represents hydrogen atom, a hydrocarbon group or acyl group having 1 to 20 carbon atoms;  $R^5CO$  and  $R^6CO$  represent an acyl group having 8 to 24 carbon atoms;  $R^7$  represents a divalent hydrocarbon group having 2 to 4 carbon atoms; and X and Y represent hydrogen atom, an alkali metal atom, ammonium or an organic ammonium] wherein a molar ratio of the component unit A relative to a total of the component unit B and the component unit C is from 7/3 to 3/7, and the component unit C is contained at a ratio of from 1 to 4 moles per 1 mole of the copolymer.

